

FACILITY NAME/ADDRESS:  
Credit River Township - Territory  
7491 165th St  
Prior Lake, MN 55372

WASTEWATER TREATMENT  
DISCHARGE MONITORING REPORT

PERMITEE NAME/ADDRESS:  
Credit River Township - Territory  
18985 Meadow View Blvd  
Prior Lake, MN 55372

PERMIT#	LIMIT STATUS	FORMER #
MN0066826	FINAL	

STATION INFORMATION:  
WS-001 (Influent Waste - System #1 (formerly Phase I))  
Waste Stream, Influent Waste

MONITORING PERIOD			
YEAR	MO	DAY	YEAR
2011	09	01	2011
			09

No Flow ('Yes' or 'No'):

No

PARAMETER		QUANTITY		UNITS	CONCENTRATION			UNITS	FREQUENCY		SAMPLE
									OF ANALYSIS		
Precipitation 00193	SAMPLE	*****	0.26	in	*****	*****	*****	****	1	Day	Measur
	VALUE										
	PERMIT	*****	REPORT		*****	*****	*****		1x	Day	Measur
Flow 50050	REQ		CalMoTot								
	SAMPLE	*****	0.1649	MG	*****	0.0055	0.007	mgd	1	Day	MeaCon
	VALUE										
	PERMIT	*****	REPORT		*****	0.0135	0.0202		1x	Day	MeaCon
BOD, Carbonaceous 05 Day (20 Deg C) 80082	REQ		CalMoTot								
	SAMPLE	*****	*****	****	*****	65	*****	mg/L	2	Month	Grab
	VALUE										
Solids, Total Suspended (TSS) 00530	PERMIT	*****	*****		*****	REPORT	*****		2x	Month	Grab
	REQ					CalMoAvg					
	SAMPLE	*****	*****	****	*****	43	*****	mg/L	2	Month	Grab
pH 00400	VALUE										
	PERMIT	*****	*****		*****	6.79	*****	SU	2	Month	Grab
	REQ										
Phosphorus, Total (as P) 00665	SAMPLE	*****	*****	****	*****	5.67	*****	mg/L	2	Month	Grab
	VALUE										
	PERMIT	*****	*****		*****	REPORT	*****		2x	Month	Grab
COMMENTS:	REQ					CalMoAvg					

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Credit River Township - Territory  
18985 Meadow View Blvd  
Prior Lake, MN 55372

PERMIT#	LIMIT STATUS	FORMER #
MN0066826	FINAL	

**STATION INFORMATION:**  
WS-002 (Septic Tank Effluent - System #1)  
Waste Stream, Intermediate: WW to Land

MONITORING PERIOD			
YEAR	MO	DAY	YEAR
2011	07	01	2011
			09
			30

FROM: 2011-07-01 TO: 2011-09-30

No Flow ('Yes' or 'No'):

No

PARAMETER		QUANTITY		UNITS	CONCENTRATION			UNITS	FREQUENCY		SAMPLE
									OF ANALYSIS		
BOD, Carbonaceous 05 Day (20 Deg C) 80082	SAMPLE	*****	*****	****	*****	*****	97	mg/L	1	Quarter	Grab
	VALUE										
	PERMIT	*****	*****		*****	*****	REPORT		1x	Quarter	Grab
Solids, Total Suspended (TSS) 00530	REQ			****			SingleVal	mg/L			
	SAMPLE	*****	*****		*****	*****	168		1	Quarter	Grab
	VALUE										
COMMENTS:	PERMIT	*****	*****		*****	*****	REPORT		1x	Quarter	Grab
	REQ						SingleVal				

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**PERMITEE NAME/ADDRESS:**  
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18985 Meadow View Blvd  
Prior Lake, MN 55372

**STATION INFORMATION:**  
WS-003 (Septic Tank Monitoring - System #1)  
Waste Stream, Internal Waste Stream

PERMIT#	LIMIT STATUS	FORMER #
MN0066826	FINAL	

MONITORING PERIOD					
YEAR/MO/DAY			YEAR/MO/DAY		
2011-07-01			2011-09-30		

**No Flow ('Yes' or 'No'):**

**No**

PARAMETER		QUANTITY		UNITS	CONCENTRATION			UNITS	FREQUENCY OF ANALYSIS		SAMPLE TYPE
Scum Depth, Maximum of Sample 00068	SAMPLE VALUE	*****	0	in	*****	*****	*****	****	1	Quarter	Measur
	PERMIT REQ	*****	REPORT SingleVal		*****	*****	*****		1x	Quarter	Measur
Sludge Depth, Maximum of Sample 04192	SAMPLE VALUE	*****	13	in	*****	*****	*****	****	1	Quarter	Measur
	PERMIT REQ	*****	REPORT SingleVal		*****	*****	*****		1x	Quarter	Measur
Remaining Scum Capacity 04195	SAMPLE VALUE	*****	3	in	*****	*****	*****	****	1	Quarter	Measur
	PERMIT REQ	*****	REPORT SingleVal		*****	*****	*****		1x	Quarter	Measur
Remaining Sludge Capacity 72109	SAMPLE VALUE	*****	26	in	*****	*****	*****	****	1	Quarter	Measur
	PERMIT REQ	*****	REPORT SingleVal		*****	*****	*****		1x	Quarter	Measur
COMMENTS:											

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DISCHARGE MONITORING REPORT**

**PERMITEE NAME/ADDRESS:**  
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18985 Meadow View Blvd  
Prior Lake, MN 55372

**STATION INFORMATION:**

WS-004 (Influent Waste - System #2 and 3 (formerly System #2))  
Waste Stream, Influent Waste

**No Flow ('Yes' or 'No'):**

Yes

PERMIT#	LIMIT STATUS	FORMER #
MN0066826	FINAL	

**MONITORING PERIOD**

FROM:	YEAR MO DAY 2011-09-01	TO:	YEAR MO DAY 2011-09-30
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PARAMETER		QUANTITY		UNITS	CONCENTRATION			UNITS	FREQUENCY OF ANALYSIS		SAMPLE TYPE
Flow 50050	SAMPLE VALUE			MG					1	Day	MeaCon
	PERMIT		REPORT								
	REQ		CalMoTot							1x	Day
COMMENTS:											

**STATION INFORMATION:**  
WS-010 (Influent Waste - System #7)  
Waste Stream, Influent Waste

PERMIT#	LIMIT STATUS	FORMER #
MN0066826	FINAL	

MONITORING PERIOD					
YEAR MO DAY			YEAR MO DAY		
FROM:	2011-09-01		TO:	2011-09-30	

No

PARAMETER		QUANTITY		UNITS	CONCENTRATION			UNITS	FREQUENCY OF ANALYSIS		SAMPLE TYPE	
Precipitation 00193	SAMPLE VALUE	*****	0.26	in	*****	*****	*****	****	1	Day	Measur	
	PERMIT REQ	*****	REPORT CalMoTot		*****	*****	*****		1x	Day	Measur	
Flow 50050	SAMPLE VALUE	*****	0.2011	MG	*****	0.0067	0.0082	mgd	1	Day	MeaCon	
	PERMIT REQ	*****	REPORT CalMoTot		*****	0.0153 CalMoAvg	0.0219 DailyMax		1x	Day	MeaCon	
BOD, Carbonaceous 05 Day (20 Deg C) 80082	SAMPLE VALUE	*****	*****	****	*****	58.5	*****	mg/L	2	Month	Grab	
	PERMIT REQ	*****	*****		*****	REPORT CalMoAvg	*****		2x	Month	Grab	
Solids, Total Suspended (TSS) 00530	SAMPLE VALUE	*****	*****	****	*****	26	*****	mg/L	2	Month	Grab	
	PERMIT REQ	*****	*****		*****	REPORT CalMoAvg	*****		2x	Month	Grab	
pH 00400	SAMPLE VALUE	*****	*****	****	7.36	*****	7.48	SU	2	Month	Grab	
	PERMIT REQ	*****	*****		*****	REPORT CalMoMin	*****		REPORT CalMoMax	2x	Month	Grab
Phosphorus, Total (as P) 00665	SAMPLE VALUE	*****	*****	****	*****	4.98	*****	mg/L	2	Month	Grab	
	PERMIT REQ	*****	*****		*****	REPORT CalMoAvg	*****		2x	Month	Grab	
COMMENTS:												

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# WASTEWATER TREATMENT DISCHARGE MONITORING REPORT

**PERMITEE NAME/ADDRESS:**  
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18985 Meadow View Blvd  
Prior Lake, MN 55372

## STATION INFORMATION:

WS-011 (Septic Tank Effluent - System #7)  
Waste Stream, Intermediate: WWT to Land

PERMIT#	LIMIT STATUS	FORMER #
MN0066826	FINAL	

**MONITORING PERIOD**

YEAR MO DAY	YEAR MO DAY
2011-07-01	2011-09-30

**FROM:**

TO:

**No Flow ('Yes' or 'No'):**

**No**

PARAMETER		QUANTITY		UNITS	CONCENTRATION			UNITS	FREQUENCY OF ANALYSIS		SAMPLE TYPE
BOD, Carbonaceous 05 Day (20 Deg C) 80082	SAMPLE VALUE	*****	*****	***	*****	*****	60	mg/L	1	Quarter	Grab
	PERMIT REQ	*****	*****		*****	*****	REPORT SingleVal		1x	Quarter	Grab
Solids, Total Suspended (TSS) 00530	SAMPLE VALUE	*****	*****	***	*****	*****	52	mg/L	1	Quarter	Grab
	PERMIT REQ	*****	*****		*****	*****	REPORT SingleVal		1x	Quarter	Grab

**COMMENTS:**

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# WASTEWATER TREATMENT DISCHARGE MONITORING REPORT

**PERMITEE NAME/ADDRESS:**  
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**STATION INFORMATION:**  
WS-012 (Septic Tank Monitoring - System #7)  
Waste Stream, Internal Waste Stream

**No Flow ('Yes' or 'No'):**

No

**FROM:**

2011-07-01

TO:

2011-09-30

PERMIT#	LIMIT STATUS	FORMER #
MN0066826	FINAL	

MONITORING PERIOD					
YEAR MO DAY			YEAR MO DAY		
2011-07-01			2011-09-30		

PARAMETER		QUANTITY		UNITS	CONCENTRATION			UNITS	FREQUENCY		SAMPLE
									OF ANALYSIS		TYPE
Scum Depth, Maximum of Sample 00068	SAMPLE VALUE	*****	0	in	*****	*****	*****	****	1	Quarter	Measur
	PERMIT REQ	*****	REPORT SingleVal		*****	*****	*****		1x	Quarter	Measur
Sludge Depth, Maximum of Sample 04192	SAMPLE VALUE	*****	12	in	*****	*****	*****	****	1	Quarter	Measur
	PERMIT REQ	*****	REPORT SingleVal		*****	*****	*****		1x	Quarter	Measur
Remaining Scum Capacity 04195	SAMPLE VALUE	*****	3	in	*****	*****	*****	****	1	Quarter	Measur
	PERMIT REQ	*****	REPORT SingleVal		*****	*****	*****		1x	Quarter	Measur
Remaining Sludge Capacity 72109	SAMPLE VALUE	*****	27	in	*****	*****	*****	****	1	Quarter	Measur
	PERMIT REQ	*****	REPORT SingleVal		*****	*****	*****		1x	Quarter	Measur
COMMENTS:											

**STATION INFORMATION:**  
WS-013 (Influent Waste - System #8)  
Waste Stream, Influent Waste

PERMIT#	LIMIT STATUS	FORMER #
MN0066826	FINAL	

MONITORING PERIOD			
YEAR MO DAY		YEAR MO DAY	
FROM:	2011-09-01	TO:	2011-09-30

No

PARAMETER		QUANTITY		UNITS	CONCENTRATION			UNITS	FREQUENCY OF ANALYSIS		SAMPLE TYPE
Flow 50050	SAMPLE VALUE	*****	0.1637	MG	*****	0.0055	0.0067	mgd	1	Day	MeaCon
	PERMIT REQ	*****	REPORT CalMoTot		*****	0.0153 CalMoAvg	0.0229 DailyMax		1x	Day	MeaCon
BOD, Carbonaceous 05 Day (20 Deg C) 80082	SAMPLE VALUE	*****	*****	*****	*****	98	*****	mg/L	1	Quarter	Grab
	PERMIT REQ	*****	*****		*****	REPORT CalQtrAve	*****		1x	Quarter	Grab
Solids, Total Suspended (TSS) 00530	SAMPLE VALUE	*****	*****	*****	*****	68	*****	mg/L	1	Quarter	Grab
	PERMIT REQ	*****	*****		*****	REPORT CalQtrAve	*****		1x	Quarter	Grab
pH 00400	SAMPLE VALUE	*****	*****	*****	7.38	*****	7.38	SU	1	Quarter	Grab
	PERMIT REQ	*****	*****		REPORT CalQtrMin	*****	REPORT CalQtrMax		1x	Quarter	Grab
COMMENTS:											



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STATION INFORMATION:

WS-016 (After media filters, before mounds - System #1)  
Waste Stream, Intermediate: WW to Land

PERMIT#	LIMIT STATUS	FORMER #
MN0066826	FINAL	

MONITORING PERIOD			
YEAR	MO	DAY	YEAR
2011	09	01	2011
			09
			30

FROM:

TO:

No Flow ('Yes' or 'No'):

No

PARAMETER		QUANTITY		UNITS	CONCENTRATION			UNITS	FREQUENCY OF ANALYSIS		SAMPLE TYPE
BOD, Carbonaceous 05 Day (20 Deg C) 80082	SAMPLE VALUE	*****	*****	****	*****	4.7	*****	mg/L	2	Month	Grab
	PERMIT REQ	*****	*****		*****	REPORT CalMoAvg	*****		2x	Month	Grab
Solids, Total Suspended (TSS) 00530	SAMPLE VALUE	*****	*****	****	*****	5.7	*****	mg/L	2	Month	Grab
	PERMIT REQ	*****	*****		*****	REPORT CalMoAvg	*****		2x	Month	Grab
Chloride, Total 00940	SAMPLE VALUE	*****	*****	****	*****	549	*****	mg/L	2	Month	Grab
	PERMIT REQ	*****	*****		*****	REPORT CalMoAvg	*****		2x	Month	Grab
Nitrogen, Total (as N) 00600	SAMPLE VALUE	*****	*****	****	*****	28.5	31.7	mg/L	2	Month	Grab
	PERMIT REQ	*****	*****		*****	REPORT CalMoAvg	REPORT 12MoMovAve		2x	Month	Grab
COMMENTS:											

COMMENTS:

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Prior Lake, MN 55372

## STATION INFORMATION:

WS-017 (After media filters, before mounds - System #2 and 3)  
Waste Stream, Intermediate: WW to Land

PERMIT#	LIMIT STATUS	FORMER #
MN0066826	FINAL	

**MONITORING PERIOD**

YEAR MO DAY	YEAR MO DAY
2011-09-01	2011-09-30

**No Flow ('Yes' or 'No'):**

☒ Yes

[illegible]

**COMMENTS:**

**FACILITY NAME/ADDRESS:**  
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DISCHARGE MONITORING REPORT**

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Prior Lake, MN 55372

## STATION INFORMATION:

WS-018 (After media filters, before mounds - System #7)  
Waste Stream, Intermediate: WW to Land

PERMIT#	LIMIT STATUS	FORMER #
MN0066826	FINAL	

## MONITORING PERIOD

YEAR MO DAY	YEAR MO DAY
2011-09-01	2011-09-30

**No Flow ('Yes' or 'No'):**

No

PARAMETER		QUANTITY		UNITS	CONCENTRATION			UNITS	FREQUENCY OF ANALYSIS		SAMPLE TYPE
BOD, Carbonaceous 05 Day (20 Deg C) 80082	SAMPLE VALUE	*****	*****	****	*****	17.5	*****	mg/L	2	Month	Grab
	PERMIT REQ	*****	*****		*****	REPORT CalMoAvg	*****		2x	Month	Grab
	SAMPLE VALUE	*****	*****		*****	14.4	*****		2	Month	Grab
Solids, Total Suspended (TSS) 00530	PERMIT REQ	*****	*****	****	*****	REPORT CalMoAvg	*****	mg/L	2x	Month	Grab
	SAMPLE VALUE	*****	*****		*****	886	*****		2	Month	Grab
	PERMIT REQ	*****	*****		*****	REPORT CalMoAvg	*****		2x	Month	Grab
Chloride, Total 00940	SAMPLE VALUE	*****	*****	****	*****	29	30.5	mg/L	2	Month	Grab
	PERMIT REQ	*****	*****		*****	REPORT CalMoAvg	REPORT 12MoMovAve		2x	Month	Grab
	SAMPLE VALUE	*****	*****		*****	886	*****		2	Month	Grab
Nitrogen, Total (as N) 00600	PERMIT REQ	*****	*****	****	*****	REPORT CalMoAvg	REPORT 12MoMovAve	mg/L	2x	Month	Grab
	SAMPLE VALUE	*****	*****		*****	29	30.5		2	Month	Grab
	PERMIT REQ	*****	*****		*****	REPORT CalMoAvg	REPORT 12MoMovAve		2x	Month	Grab

**COMMENTS:**

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DISCHARGE MONITORING REPORT

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**STATION INFORMATION:**

WS-019 (After media filters, before mounds - System #8)

Waste Stream, Intermediate: WW to Land

**No Flow ('Yes' or 'No'):**

No

PERMIT#	LIMIT STATUS	FORMER #
MN0066826	FINAL	

**MONITORING PERIOD**

FROM:	2011-09-01	TO:	2011-09-30
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PARAMETER		QUANTITY		UNITS	CONCENTRATION			UNITS	FREQUENCY OF ANALYSIS		SAMPLE TYPE
BOD, Carbonaceous 05 Day (20 Deg C) 80082	SAMPLE VALUE	*****	*****	****	*****	12	*****	mg/L	1	Month	Grab
	PERMIT REQ	*****	*****		*****	REPORT CalMoAvg	*****		1x	Month	Grab
	Solids, Total Suspended (TSS) 00530	SAMPLE VALUE	*****	*****	****	*****	15	*****	mg/L	1	Month
PERMIT REQ		*****	*****	*****		REPORT CalMoAvg	*****	1x		Month	Grab
Chloride, Total 00940		SAMPLE VALUE	*****	*****	****	*****	698	*****	mg/L	1	Month
	PERMIT REQ	*****	*****	*****		REPORT CalMoAvg	*****	1x		Month	Grab
	Nitrogen, Total (as N) 00600	SAMPLE VALUE	*****	*****	****	*****	33.1	43.4	mg/L	1	Month
PERMIT REQ		*****	*****	*****		REPORT CalMoAvg	REPORT 12MoMovAve	1x		Month	Grab

**COMMENTS:**

Supplemental Report Form: Territory CSTS #1 - Credit River Township

Permit No: MN0066826

Station ID: WS001 and WS002

Date: September 2011

WS001 pH: 6.79

WS001 pH: 7.12

Date	Flow (gal/day)	Influent Flow (mgd)	Effluent Flow (mgd)	Precipitation (in)	Primary Treatment										Secondary Treatment										Tertiary Treatment									
					Influent								Effluent - WS001								Effluent - WS002								Effluent - WS016					
					CBOD (mg/L)	TSS (mg/L)	Phos. (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	Nitrate + Nitrite (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	CBOD (mg/L)	TSS (mg/L)	Phos. (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	Nitrate + Nitrite (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	CBOD (mg/L)	TSS (mg/L)	Phos. (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	Nitrate + Nitrite (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	Enteric Fecal Coliform (col/100mL)	WS-016 Chloride (mg/L)	
1-Sep	6,099	0.0061	0.0061	0.00																														
2-Sep	5,962	0.0060	0.0060	0.01																														
3-Sep	5,729	0.0057	0.0057	0.03																														
4-Sep	5,131	0.0051	0.0051	0.00																														
5-Sep	6,286	0.0063	0.0063	0.00																														
6-Sep	5,810	0.0058	0.0058	0.00																														
7-Sep	4,815	0.0048	0.0048	0.00										66	48	6.13								4.2	4.7		19		12.7		6.3		561	
8-Sep	5,044	0.0050	0.0050	0.00																														
9-Sep	5,245	0.0052	0.0052	0.00																														
10-Sep	5,619	0.0056	0.0056	0.00																														
11-Sep	5,608	0.0056	0.0056	0.00																														
12-Sep	5,265	0.0053	0.0053	0.00																														
13-Sep	5,863	0.0059	0.0059	0.00																														
14-Sep	4,404	0.0044	0.0044	0.00																														
15-Sep	5,409	0.0054	0.0054	0.00																														
16-Sep	5,277	0.0053	0.0053	0.00																														
17-Sep	5,558	0.0056	0.0056	0.00																														
18-Sep	6,800	0.0068	0.0068	0.08																														
19-Sep	5,549	0.0055	0.0055	0.00																														
20-Sep	4,532	0.0045	0.0045	0.07																														
21-Sep	4,777	0.0048	0.0048	0.04																														
22-Sep	6,015	0.0060	0.0060	0.03										64	38	5.21							97	168		5.2	6.7		38	32.6		5.38	536	
23-Sep	5,019	0.0050	0.0050	0.00																														
24-Sep	5,036	0.0050	0.0050	0.00																														
25-Sep	5,605	0.0056	0.0056	0.00																														
26-Sep	6,963	0.0070	0.0070	0.00																														
27-Sep	5,392	0.0054	0.0054	0.00																														
28-Sep	5,778	0.0058	0.0058	0.00																														
29-Sep	5,404	0.0054	0.0054	0.00																														
30-Sep	4,867	0.0049	0.0049	0.00																														
Average	5,495	0.0055	0.0055	0.01	####	####	####	####	####	####	####	####	####	65	43	5.67	####	####	####	####	####	####	97	168	####	####	####	####	####	####	####	####	549	
Total	164,859	0.1649	0.1649	0.26																														

Precipitation data collected from the National Weather Service (www.weather.gov/climate)

## Territory One September Wastewater Operation Summary Credit River Township

### Monitoring Wells

Sample as required by permit (April, July, October)  
Take water level measurements  
Take field tests for conductivity, temp, PH

Frequency

3 / year  
3 / year  
3 / year

☐ Completed  
☒ Completed  
☐ Completed

☒ Not Completed  
☒ Not Completed  
☒ Not Completed

### General

Measure sludge and scum in STEP septic tanks  
Clean Biotube STEP filters and test pump operation  
Pull pump, clean inlet screen  
Monitor flow via TCOM  
Perform collection system maintenance

1 / year  
1 / year  
1 / year  
1 / week  
2 / year

☐ Completed  
☐ Completed  
☐ Completed  
☒ Completed  
☐ Completed

☒ Not Completed  
☒ Not Completed  
☒ Not Completed  
☐ Not Completed  
☐ Not Completed

### Advantex AX100 Pods

Download pump run times and event counters  
Verify pumps are operational  
Test amp draws of pumps  
Clean Biotube filters and pump inlet screens  
Sample influent as required by permit  
Check for orifice plugging  
Visually inspect treatment pods for performance issues  
Flush dosing lines

1 / month  
1 / month  
1 / month  
1 / year  
2 / month  
4 / year  
4 / year  
4 / year

☒ Completed  
☒ Completed  
☒ Completed  
☒ Completed  
☐ Completed  
☒ Completed  
☒ Completed  
☐ Completed

☐ Not Completed  
☐ Not Completed  
☐ Not Completed  
☐ Not Completed  
☒ Not Completed  
☐ Not Completed  
☐ Not Completed  
☒ Not Completed

### Drainfield

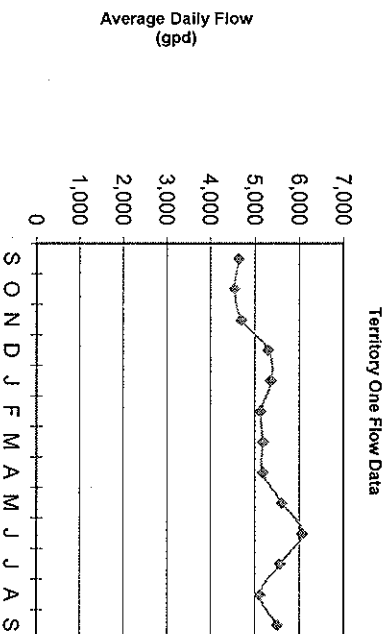
Visually inspect the drainfield and walk around mounds.  
Observe cleanouts in mounds for evidence of ponding.  
Turn pumps to hand to observe diverter operation.  
Check for rodent activity/apply pesticide  
System winterized

6 / year  
6 / year  
4 / year  
6 / year  
1 / year

☒ Completed  
☒ Completed  
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☐ Completed

☐ Not Completed  
☐ Not Completed  
☐ Not Completed  
☐ Not Completed  
☒ Not Completed

**Average Daily Flow**  
Current month reading 5,495 gallons per day  
Previous month reading 5,122 gallons per day  
Increase/decrease 373 gallons per day



### Comments

EcoCheck collected monthly wastewater sampling per the MPCA requirements. Daily waste flows were monitored, logged and pumps verified to be operational. Walk through inspections of the treatment site and mound system were performed.  
Seasonal Collection System Inspection and Maintenance occurred in September.

### Future Maintenance Needs

Date: 09/07/11 09/13/11 09/21/11 09/28/11  
Operator: SK SS SK TB/SS

"We're more than just operators...."

Providing experienced water and wastewater operations, maintenance, and management services to homeowners associations, local governments, and residential developers.

Supplemental Report Form: Territory CSTS #7 - Credit River Township  
 Permit No: MN006826  
 Station ID: WS010 and WS011  
 Date: September 2011

WS010 pH: 7.48  
 WS010 pH: 7.36

Date	Flow (gal/day)	Influent Flow (mgd)	Effluent Flow (mgd)	Precipitation (in)	Primary Treatment										Secondary Treatment										Tertiary Treatment																		
					Influent							Effluent - WS010							Effluent - WS011							Effluent - WS018																	
					CBOD (mg/L)	TSS (mg/L)	Phos. (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	Nitrate + Nitrite (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	CBOD (mg/L)	TSS (mg/L)	Phos. (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	Nitrate + Nitrite (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	CBOD (mg/L)	TSS (mg/L)	Phos. (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	Nitrate + Nitrite (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	Enteric Fecal Coliform (col/100ml)	WS-018 Chloride (mg/L)										
1-Sep	7,104	0.0071	0.0071	0.00																																							
2-Sep	5,493	0.0055	0.0055	0.01																																							
3-Sep	5,735	0.0057	0.0057	0.03																																							
4-Sep	5,350	0.0054	0.0054	0.00																																							
5-Sep	7,793	0.0078	0.0078	0.00																																							
6-Sep	6,431	0.0064	0.0064	0.00																																							
7-Sep	7,018	0.0070	0.0070	0.00										41	16	5.52											21	14.7		24.9		1.79				23.1		849					
8-Sep	6,290	0.0063	0.0063	0.00																																							
9-Sep	6,598	0.0066	0.0066	0.00																																							
10-Sep	7,750	0.0078	0.0078	0.00																																							
11-Sep	7,108	0.0071	0.0071	0.00																																							
12-Sep	6,424	0.0064	0.0064	0.00																																							
13-Sep	6,109	0.0061	0.0061	0.00																																							
14-Sep	5,624	0.0056	0.0056	0.00																																							
15-Sep	6,659	0.0067	0.0067	0.00																																							
16-Sep	7,081	0.0071	0.0071	0.00																																							
17-Sep	6,505	0.0065	0.0065	0.00																																							
18-Sep	7,899	0.0079	0.0079	0.08																																							
19-Sep	6,582	0.0066	0.0066	0.00																																							
20-Sep	6,827	0.0068	0.0068	0.07																																							
21-Sep	6,524	0.0065	0.0065	0.04																																							
22-Sep	7,544	0.0075	0.0075	0.03										76	38	4.44											60	52															
23-Sep	7,299	0.0073	0.0073	0.00																																							
24-Sep	6,897	0.0069	0.0069	0.00																																							
25-Sep	6,660	0.0067	0.0067	0.00																																							
26-Sep	7,335	0.0073	0.0073	0.00																																							
27-Sep	6,100	0.0061	0.0061	0.00																																							
28-Sep	6,279	0.0063	0.0063	0.00																																							
29-Sep	5,865	0.0059	0.0059	0.00																																							
30-Sep	8,211	0.0082	0.0082	0.00																																							
Average	6,703	0.0067	0.0067	0.01	####	####	####	####	####	####	####	####	####	58.5	26	4.98	####	####	####	####	####	####	####	60	52	####	####	####	####	####	####	####	17.5	14.4	####	29	####	6.8	####	####	22.2	####	886
Total	201,095	0.2011	0.2011	0.26																																							

Precipitation data collected from the National Weather Service ([www.weather.gov/climate](http://www.weather.gov/climate))

## Territory Seven September Wastewater Operation Summary Credit River Township

### Monitoring Wells

Sample as required by permit (April, July, October)  
Take water level measurements  
Take field tests for conductivity, temp, pH

Frequency

3 / year  
3 / year  
3 / year

☐ Completed  
☐ Completed  
☐ Completed

☒ Not Completed  
☒ Not Completed  
☒ Not Completed

### General

Measure sludge and scum in STEP septic tanks  
Clean Biotube STEP filters and test pump operation  
Pull pump, clean inlet screen  
Monitor flow via TCOM  
Perform collection system maintenance

1 / year  
1 / year  
1 / year  
1 / week  
2 / year

☐ Completed  
☐ Completed  
☐ Completed  
☒ Completed  
☒ Completed

☒ Not Completed  
☒ Not Completed  
☒ Not Completed  
☒ Not Completed  
☒ Not Completed

### Advantex AX100 Pods

Download pump run times and event counters  
Verify pumps are operational  
Test amp draws of pumps  
Clean Biotube filters and pump inlet screens  
Sample influent as required by permit  
Check for orifice plugging  
Visually inspect treatment pods for performance issues  
Flush dosing lines

1 / month  
1 / month  
1 / month  
1 / year  
2 / month  
4 / year  
4 / year  
4 / year

☒ Completed  
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☐ Not Completed  
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☒ Not Completed

### Drainfield

Visually inspect the drainfield and walk around mounds.  
Observe cleanouts in mounds for evidence of ponding.  
Turn pumps to hand to observe diverter operation.  
Check for rodent activity/apply pesticide  
System winterized

6 / year  
6 / year  
4 / year  
6 / year  
1 / year

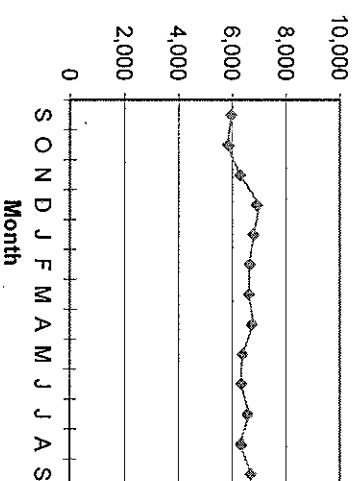
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Territory Seven Flow Data

**Average Daily Flow**  
Current month reading      6,703      gallons per day  
Previous month reading      6,346      gallons per day  
Increase/decrease      357      gallons per day

Average Daily Flow  
(gpd)



### Comments

EcoCheck collected monthly wastewater sampling per the MPCA requirements. Daily waste flows were monitored, logged and pumps verified to be operational. Walk through inspections of the treatment site and mound system were performed.  
Seasonal Collection System Inspection and Maintenance occurred in September.

### Future Maintenance Needs

Date:      09/07/11      09/13/11      09/21/11      09/28/11  
Operator:      SK      SS      SK      TB/SS

"We're more than just operators...."

Providing experienced water and wastewater operations, maintenance, and management services to homeowners associations, local governments, and residential developers.



Supplemental Report Form: Territory CSTS #8- Credit River Township  
 Permit No: MN0066826  
 Station ID: WS014 and WS019  
 Date: September 2011

WS013 pH: 7.38

					Primary Treatment										Secondary Treatment										Tertiary Treatment											
Date	Flow (gal/day)	Influent Flow (mgd)	Effluent Flow (mgd)	Precipitation (in)	Influent - WS013								Effluent - WS014								Effluent - WS019								Effluent							
					CBOD (mg/L)	TSS (mg/L)	Phos. (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	Nitrate + Nitrite (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	CBOD (mg/L)	TSS (mg/L)	Phos. (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	Nitrate + Nitrite (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	CBOD (mg/L)	TSS (mg/L)	Phos. (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	Nitrate + Nitrite (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	Effluent Fecal Coliform (col/100mL)	WS-019 Chloride (mg/L)			
1-Sep	5,166	0.0052	0.0052	0.00																																
2-Sep	5,756	0.0058	0.0058	0.01																																
3-Sep	5,370	0.0054	0.0054	0.03																																
4-Sep	4,577	0.0046	0.0046	0.00																																
5-Sep	6,059	0.0061	0.0061	0.00																																
6-Sep	6,181	0.0062	0.0062	0.00																																
7-Sep	4,899	0.0049	0.0049	0.00																																
8-Sep	5,398	0.0054	0.0054	0.00																																
9-Sep	5,209	0.0052	0.0052	0.00																																
10-Sep	5,226	0.0052	0.0052	0.00																																
11-Sep	5,083	0.0051	0.0051	0.00																																
12-Sep	5,794	0.0058	0.0058	0.00																																
13-Sep	5,426	0.0054	0.0054	0.00																																
14-Sep	5,230	0.0052	0.0052	0.00																																
15-Sep	5,229	0.0052	0.0052	0.00																																
16-Sep	5,160	0.0052	0.0052	0.00																																
17-Sep	5,657	0.0057	0.0057	0.00																																
18-Sep	6,133	0.0061	0.0061	0.08																																
19-Sep	6,112	0.0061	0.0061	0.00																																
20-Sep	5,569	0.0056	0.0056	0.07																																
21-Sep	5,183	0.0052	0.0052	0.04																																
22-Sep	5,349	0.0053	0.0053	0.03	98	68											12	15	33.1	12.4		20.7									698					
23-Sep	5,335	0.0053	0.0053	0.00																																
24-Sep	5,754	0.0058	0.0058	0.00																																
25-Sep	5,697	0.0057	0.0057	0.00																																
26-Sep	6,654	0.0067	0.0067	0.00																																
27-Sep	5,094	0.0051	0.0051	0.00																																
28-Sep	4,855	0.0049	0.0049	0.00																																
29-Sep	5,799	0.0058	0.0058	0.00																																
30-Sep	4,708	0.0047	0.0047	0.00																																
Average	5,455	0.0055	0.0055	0.01	98	68	####	####	####	####	####	####	####	####	####	####	12	15	####	33.1	####	12.4	####	####	20.7	####	####	####	####	####	####	####	698			
Total	163,660	0.1637	0.1637	0.26																																

Precipitation data collected from the National Weather Service ([www.weather.gov/climate](http://www.weather.gov/climate))

## Territory Eight September Wastewater Operation Summary Credit River Township

### Monitoring Wells

Sample as required by permit (April, July, October)  
Take water level measurements  
Take field tests for conductivity, temp, PH

### Frequency

3 / year  
3 / year  
3 / year

☐ Completed  
☐ Completed  
☐ Completed

☒ Not Completed  
☒ Not Completed  
☒ Not Completed

### General

Measure sludge and scum in STEP septic tanks  
Clean Bionube STEP filters and test pump operation  
Pull pump, clean inlet screen  
Monitor flow via TCOM  
Perform collection system maintenance

1 / year  
1 / year  
1 / year  
1 / week  
2 / year

☐ Completed  
☐ Completed  
☐ Completed  
☐ Completed  
☒ Completed

☒ Not Completed  
☒ Not Completed  
☒ Not Completed  
☐ Not Completed  
☐ Not Completed

### Advantex AX100 Pods

Download pump run times and event counters  
Verify pumps are operational  
Test amp draws of pumps  
Clean Bionube filters and pump inlet screens  
Sample influent as required by permit  
Check for orifice plugging  
Visually inspect treatment pods for performance issues  
Flush dosing lines

1 / month  
1 / month  
1 / month  
1 / year  
4 / year  
4 / year  
4 / year  
4 / year

☒ Completed  
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☒ Not Completed

### Drainfield

Visually inspect the drainfield and walk around mounds.  
Observe cleanouts in mounds for evidence of ponding.  
Turn pumps to hand to observe diverter operation.  
Check for rodent activity/apply pesticide  
System winterized

6 / year  
6 / year  
4 / year  
6 / year  
1 / year

☒ Completed  
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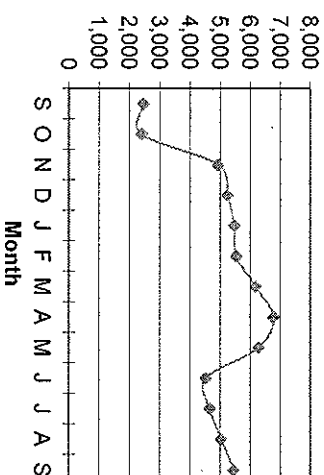
### Average Daily Flow

Current month reading  
Previous month reading  
Increase/decrease

5,455. gallons per day  
5,052 gallons per day  
404 gallons per day

### Territory Eight Flow Data

Average Daily Flow (gpd)



### Comments

EcoCheck collected monthly wastewater sampling per the MPCa requirements. Daily waste flows were monitored, logged and pumps verified to be operational. Walk through inspections of the treatment site and mound system were performed  
Seasonal Collection System Inspection and Maintenance occurred in September.

### Future Maintenance Needs

Date: 09/07/11 09/13/11 09/21/11 09/28/11  
Operator: SK SS SK TB/SS

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Providing experienced water and wastewater operations, maintenance, and management services to homeowners associations, local governments, and residential developers.

## SAMPLE RESULTS

PACE Sample: 509437  
Description: WS-001 (Inf System 1)  
Sample Date: 9/7/2011 11:30:00 AM

Matrix: Aqueous  
Sample Type: Grab

PACE COC: 119025  
Client: - EcoCheck  
Project: VM4423 - Territory  
Sampled By: Client  
Report Date: 9/27/2011  
Rec'd Temperature: 3.1 °C

Analyte	Result	RL	Units	Method	Prepared Date	Analysis Date
CBOD	66	40	mg/L	SM 5210B	9/13/2011	9/8/2011 07:23
Phosphorous, Total	6.13	0.1	mg/L as P	EPA 365.1	9/14/2011	9/14/2011 14:36
Solids, Nonfilterable (TSS)	48	1	mg/L	USGS 1-3765-85	9/14/2011	9/14/2011

## SAMPLE RESULTS

**PACE Sample: 509438**  
**Description: WS-016 (Int Sytem 1)**  
**Sample Date: 9/7/2011 11:40:00 AM**

**Matrix: Aqueous**  
**Sample Type: Grab**

**PACE COC: 119025**  
**Client: - EcoCheck**  
**Project: VM4423 - Territory**  
**Sampled By: Client**  
**Report Date: 9/27/2011**  
**Rec'd Temperature: 3.1 °C**

Analyte	Result	RL	Units	Method	Prepared Date	Analysis Date
CBOD	4.2	4	mg/L	SM 5210B	9/8/2011 07:23	
Chloride	561	5	mg/L	EPA 300.0	9/23/2011 16:12	
Nitrogen, Nitrate+Nitrite	12.7	0.5	mg/L as N	EPA 353.2	9/14/2011 09:49	
Nitrogen, Total	19	0.5	mg/L as N	EPA 351.2/353.2	9/26/2011 13:30	
Nitrogen, Total Kjeldahl	6.3	0.5	mg/L as N	EPA 351.2	9/21/2011	9/22/2011 13:02
Solids, Nonfilterable (TSS)	4.7	1	mg/L	USGS I-3765-85	9/14/2011	

## SAMPLE RESULTS

PAGE Sample: 509439  
Description: WS-010 (Inf System 7)  
Sample Date: 9/7/2011 12:00:00 PM

Matrix: Aqueous  
Sample Type: Grab

PAGE COC: 119025  
Client: - EcoCheck  
Project: VM4423 - Territory  
Sampled By: Client  
Report Date: 9/27/2011  
Rec'd Temperature: 3.1 °C

Analyte	Result	RL	Units	Method	Prepared Analysis	
					Date	Date
CBOD	41	26.6	mg/L	SM 5210B	9/8/2011 07:23	
Phosphorous, Total	5.52	0.1	mg/L as P	EPA 365.1	9/13/2011	9/14/2011 14:31
Solids, Nonfilterable (TSS)	16	1	mg/L	USGS 1-3765-85	9/14/2011	

## SAMPLE RESULTS

PACE Sample: 509440  
Description: WS-018 (Int System 7)  
Sample Date: 9/7/2011 12:10:00 PM

Matrix: Aqueous  
Sample Type: Grab

PACE COC: 119025  
Client: - EcoCheck  
Project: VM4423 - Territory  
Sampled By: Client  
Report Date: 9/27/2011  
Rec'd Temperature: 3.1 °C

Analyte	Result	RL	Units	Method	Prepared Analysis	
					Date	Date
CBOD	21	12	mg/L	SM 5210B	9/8/2011 07:23	
Chloride	849	5	mg/L	EPA 300.0	9/23/2011 15:48	
Nitrogen, Nitrate+Nitrite	1.79	0.2	mg/L as N	EPA 353.2	9/14/2011 09:47	
Nitrogen, Total	24.9	2.5	mg/L as N	EPA 351.2/353.2	9/26/2011 13:31	
Nitrogen, Total Kjeldahl	23.1	2.5	mg/L as N	EPA 351.2	9/21/2011	9/22/2011 12:59
Solids, Nonfilterable (TSS)	14.7	1	mg/L	USGS 1-3765-85		9/14/2011

## SAMPLE RESULTS

PACE Sample: 513093  
Description: WS-001 (Inf System 1)  
Sample Date: 9/22/2011 1:30:00 PM

Matrix: Aqueous  
Sample Type: Grab

PACE COC: 119574  
Client: - EcoCheck  
Project: VM4423 - Territory  
Sampled By: Client  
Report Date: 10/6/2011  
Rec'd Temperature: 5.7 °C

Analyte	Result	RL	Units	Method	Prepared Date	Analysis Date
CBOD	64	48	mg/L	SM 5210B	9/27/2011	9/23/2011 09:07
Phosphorous, Total	5.21	0.1	mg/L as P	EPA 365.1	9/27/2011	9/28/2011 08:09
Solids, Nonfilterable (TSS)	38	1	mg/L	USGS 1-3765-85	9/27/2011	9/27/2011

## SAMPLE RESULTS

PAGE Sample: 513088  
Description: WS-002 (Eff System #1)  
Sample Date: 9/22/2011 1:40:00 PM

Matrix: Aqueous  
Sample Type: Grab

PAGE COC: 119572  
Client: - EcoCheck  
Project: VM4423 - Territory  
Sampled By: Client  
Report Date: 9/29/2011  
Rec'd Temperature: 5.7 °C

Analyte	Result	RL	Units	Method	Prepared Date	Analysis Date
CBOD	97	60	mg/L	SM 5210B		9/23/2011 09:07
Solids, Nonfilterable (TSS)	168	1	mg/L	USGS 1-3765-85		9/27/2011



## SAMPLE RESULTS

**PACE Sample:** 513094  
**Description:** WS-016 (Int Sytem 1)  
**Sample Date:** 9/22/2011 1:50:00 PM

**Matrix:** Aqueous  
**Sample Type:** Grab

**PACE COC:** 119574  
**Client:** - EcoCheck  
**Project:** VM4423 - Territory  
**Sampled By:** Client  
**Report Date:** 10/6/2011  
**Rec'd Temperature:** 5.7 °C

Analyte	Result	RL	Units	Method	Prepared Analysis	
					Date	Date
CBOD	<5.2	5.2	mg/L	SM 5210B		9/23/2011 09:07
Chloride	536	5	mg/L	EPA 300.0		10/5/2011 05:37
Nitrogen, Nitrate+Nitrite	32.6	0.5	mg/L as N	EPA 353.2		9/27/2011 10:41
Nitrogen, Total	38	0.5	mg/L as N	EPA 351.2/353.2		9/30/2011 11:02
Nitrogen, Total Kjeldahl	5.38	0.5	mg/L as N	EPA 351.2	9/29/2011	9/30/2011 07:33
Solids, Nonfilterable (TSS)	6.7	1	mg/L	USGS 1-3765-85		9/27/2011

## SAMPLE RESULTS

PAGE Sample: 513095  
Description: WS-010 (Inf System 7)  
Sample Date: 9/22/2011 2:10:00 PM

Matrix: Aqueous  
Sample Type: Grab

PAGE COC: 119574  
Client: - EcoCheck  
Project: VM4423 - Territory  
Sampled By: Client  
Report Date: 10/6/2011  
Rec'd Temperature: 5.7 °C

Analyte	Result	RL	Units	Method	Prepared Analysis	
					Date	Date
CBOD	76	48	mg/L	SM 5210B	9/27/2011	9/23/2011 09:07
Phosphorous, Total	4.44	0.1	mg/L as P	EPA 365.1	9/27/2011	9/28/2011 08:30
Solids, Nonfilterable (TSS)	36	1	mg/L	USGS 1-3765-85	9/27/2011	9/27/2011

## SAMPLE RESULTS

PAGE Sample: 513089  
Description: WS-011 (Eff System #7)  
Sample Date: 9/22/2011 2:20:00 PM

Matrix: Aqueous  
Sample Type: Grab

PAGE COC: 119572  
Client: - EcoCheck  
Project: VM4423 - Territory  
Sampled By: Client  
Report Date: 9/29/2011  
Rec'd Temperature: 5.7 °C

Analyte	Result	RL	Units	Method	Prepared Date	Analysis Date
CBOD	60	40	mg/L	SM 5210B		9/23/2011 09:07
Solids, Nonfilterable (TSS)	52	1	mg/L	USGS I-3765-85		9/27/2011

## SAMPLE RESULTS

**PACE Sample:** 513096  
**Description:** WS-018 (Int System 7)  
**Sample Date:** 9/22/2011 2:30:00 PM

**Matrix:** Aqueous  
**Sample Type:** Grab

**PACE COC:** 119574  
**Client:** - EcoCheck  
**Project:** VM4423 - Territory  
**Sampled By:** Client  
**Report Date:** 10/6/2011  
**Rec'd Temperature:** 5.7 °C

Analyte	Result	RL	Units	Method	Prepared Date	Analysis Date
CBOD	14	8	mg/L	SM 5210B	9/23/2011 09:07	
Chloride	923	5	mg/L	EPA 300.0	10/5/2011 04:49	
Nitrogen, Nitrate+Nitrite	11.8	0.2	mg/L as N	EPA 363.2	9/27/2011 11:27	
Nitrogen, Total	33.1	1	mg/L as N	EPA 361.2/363.2	9/30/2011 11:02	
Nitrogen, Total Kjeldahl	21.3	1	mg/L as N	EPA 361.2	9/29/2011 15:25	
Solids, Nonfilterable (TSS)	14	1	mg/L	USGS 1-3765-85	9/27/2011	

## SAMPLE RESULTS

PACE Sample: 513090  
Description: WS-013 (Inf System #8)  
Sample Date: 9/22/2011 3:10:00 PM

Matrix: Aqueous  
Sample Type: Grab

PACE COC: 119572  
Client: - EcoCheck  
Project: VM4423 - Territory  
Sampled By: Client  
Report Date: 9/29/2011  
Rec'd Temperature: 5.7 °C

Analyte	Result	RL	Units	Method	Prepared Date	Analysis Date
CBOD	98	48	mg/L	SM 5210B		9/23/2011 09:07
Solids, Nonfilterable (TSS)	68	1	mg/L	USGS 1-3765-85		9/27/2011

## SAMPLE RESULTS

**PAGE Sample:** 513097  
**Description:** WS-019 (Int Systems 8)  
**Sample Date:** 9/22/2011 3:00:00 PM

**Matrix:** Aqueous  
**Sample Type:** Grab

**PAGE COC:** 119574  
**Client:** - EcoCheck  
**Project:** VM4423 - Territory  
**Sampled By:** Client  
**Report Date:** 10/6/2011  
**Rec'd Temperature:** 5.7 °C

Analyte	Result	RL	Units	Method	Prepared Analysis	
					Date	Date
CBOD	12	8	mg/L	SM 5210B	9/23/2011 09:07	
Chloride	698	5	mg/L	EPA 300.0	10/5/2011 05:13	
Nitrogen, Nitrate+Nitrite	12.4	0.5	mg/L as N	EPA 363.2	9/27/2011 10:30	
Nitrogen, Total	33.1	1	mg/L as N	EPA 361.2/353.2	9/30/2011 11:02	
Nitrogen, Total Kjeldahl	20.7	1	mg/L as N	EPA 361.2	9/29/2011	9/30/2011 07:44
Solids, Nonfilterable (TSS)	15	1	mg/L	USGS 1-3765-85		9/27/2011